

PATENT
12480-000105/US

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant(s): Yasuo SUDA et al.
Int'l Application No.: PCT/JP2003/011417
Application No.: **NEW APPLICATION**
Filed: March 8, 2005
For: LINKER COMPOUND, LIGAND, AND PRODUCING
METHOD THEREOF

**INFORMATION DISCLOSURE STATEMENT
(SUBMISSION CONCURRENT WITH THE
FILING OF A NEW PATENT APPLICATION)**

Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314
Mail Stop PCT

March 8, 2005

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- ☐ Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☒ This application is a National Phase of a PCT application. All of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

- ☐ Because the present application is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

- a. ☐ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The attached patents, publications, or other information in the English language do not require a statement of relevancy.

- b. ☒ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

Many of the documents have been discussed in the PCT Search Report, the PCT Preliminary Examination Report, and/or throughout the specification. The PCT Search Report and/or PCT Preliminary Examination Report, indicate the degree of relevance found by the PCT Office, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

- c. ☒ **ENGLISH LANGUAGE SEARCH REPORT**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

- d. ☒ **OTHER**

The following additional information is provided for the Examiner's consideration.

International Search Report and International Preliminary Examination Report.

10/526775

0708 Rec'd PCT/PTO 08 MAR 2005

New PCT National Phase Application
Docket No. 12480-000105/US

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 08-0750.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C.

By: _____

Donald J. Daley, Reg. No. 34,313

DJD/smk

P.O. Box 8910
Reston, Virginia 20195
(703) 668-8000

Enclosures:

- ☒ Form PTO-1449(s)
- ☒ Foreign Search Reports

| | | | | | | |
|---|------------------|---|-----------------|------------------------------------|--------------|-------------------------------|
| Form PTO-1449 | | ATTY DOCKET NO. 12480-000105/US | | APPLICATION NO. NEW APPLICATION | | |
| INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary) | | APPLICANT(S) Yasuo SUDA et al. | | CONF. NO. Unknown | | |
| | | FILING DATE March 8, 2005 | | GROUP Unknown | | |
| U.S. PATENT DOCUMENTS | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | |
| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES NO |
| | WO 01/86301 A1 | 05/10/2001 | WIPO | | | |
| | JP 2002-080488 A | 03/19/2002 | JAPAN | | | |
| OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.) | | | | | | |
| | | Akio ARANO et al., "Heparin Bubun Kozo o Yusuru Cluster-ka Oligo-torui Ligand no gosei to chip Technology eno Oyo", CSJ: The chemical Society of Japan Dai 82 Shuki Nenkai (2002) Kagaku Kankeigaku Kyogikai Kenkyu Happyokai Rengo Toronkai Godo Taikai, 10 September 2002 (10.09.02), Page 137 (1C1-11) | | | | |
| | | Yasuo SUMIDA, "Ryusanka Tennen Tato no Kino Domain Kozo no Saikochiku to Sensor Chip eno Oyo", CSJ: The Chemical Society of Japan Dai 81 Shunki Nenkai 2002 Nen Koen Yokoshu II, March 2002, Page 949 (1F6-33) | | | | |
| | | Hideki HAYASHI et al., "Ryusanka Oligo-to no Shugoka, Biotin-ka oyobi Sono Hyomen Plasmon Kyomei eno Oyo", CSJ: The Chemical Society of Japan Dai 79 Shunki Nenkai (2001) Koen Yokoshu II, March 2001, Page 1042 (4G304) | | | | |
| | | Akio ARANO et al., "Disulfide Ketsugo O Yusuru Linker O Ketsugo saseta Heparin Bubun Kozo no Gosei to Chip Technology eno Oyo", CSJ: The Chemical Society of Japan Dai 79 Shunki Nenkai (2001) Koen Yokoshu II, March 2001, Page 1042 (4G305) | | | | |
| | | KOSHIDA S et al., An efficient method for the assembly of sulfated oligosaccharides using reductive amination., Tetrahedron Lett., 2001, Vol. 42, Pages 1293 to 1296 | | | | |
| | | KOSHIDA S et al., Synthesis of oligomeric assemblies of a platelet-binding key disaccharide in heparin and their biological activities., Tetrahedron Lett. 2001, Vol. 42, Pages 1289 to 1292 | | | | |
| | | Yasuo SUMIDA et al., "Ryusanka Oligo-to o Koteika shita Sugar Chip no Kaihatsu to Hyomen Plasmom Kyomeiho eno Oyo, Seikagaku, 25 August 2002 (25.08.02), Vol. 74, No. 8, Page 849 (3P-047) | | | | |
| | | Hideki HAYASHI et al., "Ryusanka Oligo-to no Shugoka, Biotin-ka to Sono Sensor chip eno Oyo", Dai 23 Kai The Japanese Society of Carbohydrate Research Nenkai Yoshishu, July 2002, Page 75 (PI-05) | | | | |
| | | | | | | |
| | | | | | | |
| EXAMINER | | | DATE CONSIDERED | | | |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | |